

CLAIMS

1 1. A method for marking petroleum products, the method comprising the steps of:
2 adding a marker which has a high molar absorptivity in the wavelength range of
3 600 - 1000 nm to a petroleum product;
4 mixing the marker in the petroleum product; and
5 detecting the marker in the petroleum product.

1 2. The method of claim 1 wherein the marker contains a compound selected from
2 the group consisting of metal containing and metal free phthalocyanine dyes, metal containing
3 and metal free naphthalocyanine dyes, squarilium dyes, croconic acid dyes, indole and
4 substituted indole cyanine and carbocyanine dyes, thiazole type cyanine and carbocyanine dyes,
5 oxazole type cyanine and carbocyanine dyes, metal dithiolene complexes, and indoaniline metal
6 complexes.

1 3. The method of claim 2 wherein the marker is detected using an IR spectrometer.

1 4. The method of claim 2 wherein the marker is used to determine if the petroleum
2 product has been adulterated.

1 5. The method of claim 2 wherein the petroleum product is in diesel fuel.